SYSTEM OF OVAL HEAT RESISTANT SINGLE-WALL CHIMNEY LINER

KO

EN

01/23

KO

Characteristics of KO system

KO Chimney system- pipes and fittings of exhaust system for open chamber heating appliance for solid fuels
KO system is produced from stainless steel of proper chemical composition, that guarantees its heat-resistance. Combustion of solid fuels is characterized by high temperatures, that cause heating of chimney duct walls. Steel composition as well as its technological parameters have to guarantee the proper work of chimney and protect it from the damaging heat. KO system produces liners of following thickness- 0,8 mm and 1.0 mm.

The main features of the KO system

- The best quality
- Perfect for rectangular chimney shaft
- Design and manufacturing accuracy
- Easy installation

When KO system is to be used and what are its advantages

KO is a system of oval pipes and fittings. KO system is recommended in case of rectangular chimney shaft. Such a chimney shaft can be found in an older buildings. The rectangular cross-section surface will be best covered by oval cross-section. Appropriate fitting of the liner cross-section surface to the chimney shaft surface is very important, because it influences on proper technical parameters of the chimney, and its proper functionality as well as right chimney draught. Another important aspect is open chamber heating appliance. They are characterized by uptake of surrounding air which is necessary for combustion process. Exhaust gases are carried away by chimney duct.

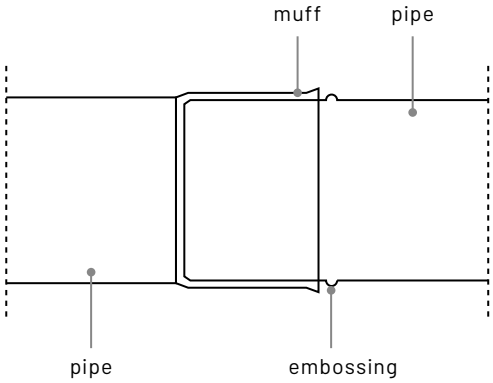
The basic advantage for KO system users is its safety, that is provided by tight pin-muff coupling. Currently it is considered as the most important argument among our customers. Another advantage is easy and quick installation. And of course the comfortable using, ensured thanks to all material and technological features of the system. Proper technological process in connection with modern production process guarantees long lasting system functionality.

Technical data

Destination	Open chamber heating appliances
Fuel type	Ecological solid fuels
Available diameters	Dn160 (110x185) - Dn 225 (140x250), larger diameters upon individual request
Steel thickness	0,8 - 1,0 mm
Type of steel	according to PN-EN 1856-1
Type of connection	Socket
Temperature class	T 450
Pressure class	N1 (pressure of 40Pa)
Operation mode	Negative pressure
Soot fire resistant	G 1000

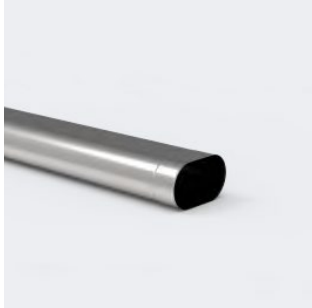
Connection of KO system components

KO system components are connected by socket system. Thanks to such connection the structure of the liner is stiff and connections are tight.



Pipe L=1000 mm

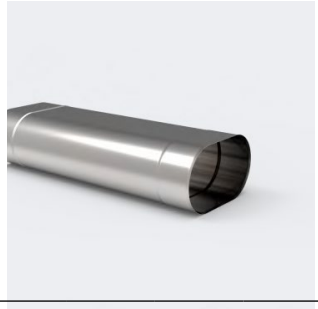
Index	KO-R10

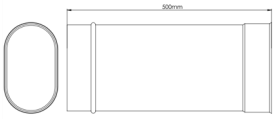


Dimensions	[mm]	110x185	110x200	110x210	110x230	120x180	120x195	120x225	120x240	130x200	130x220	130x240	130x250	140x250
Diameters	[mm]	160	180	180	180	160	200	180	200	180	200	200	225	225
Available steel thickness	[mm]	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Pipe L=500 mm

Index	KO-R02

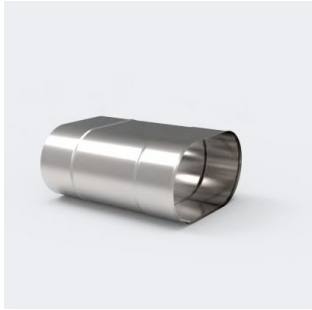


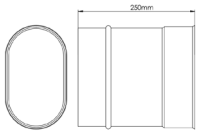


Dimensions	[mm]	110x185	110x200	110x210	110x230	120x180	120x195	120x225	120x240	130x200	130x220	130x240	130x250	140x250
Diameters	[mm]	160	180	180	180	160	200	180	200	180	200	200	225	225
Available steel thickness	[mm]	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Pipe L=250 mm

Index	KO-R02

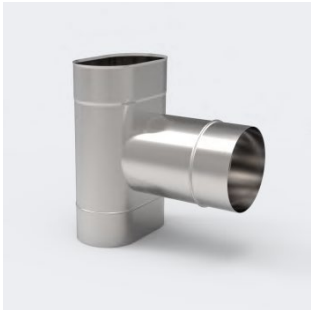


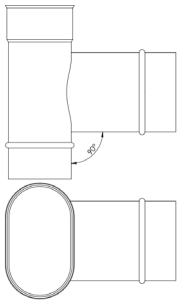


Dimensions	[mm]	110x185	110x200	110x210	110x230	120x180	120x195	120x225	120x240	130x200	130x220	130x240	130x250	140x250
Diameters	[mm]	160	180	180	180	160	200	180	200	180	200	200	225	225
Available steel thickness	[mm]	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Tee-pipe 90° (1)

Index	KO - TR90(W1)

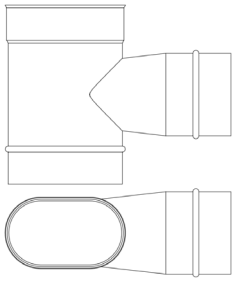




Dimensions	[mm]	110x185	110x200	110x210	110x230	120x180	120x195	120x225	120x240	130x200	130x220	130x240	130x250	140x250
Diameters	[mm]	160	180	180	180	160	200	180	200	180	200	200	225	225
Available steel thickness	[mm]	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Tee-pipe 90° (2)

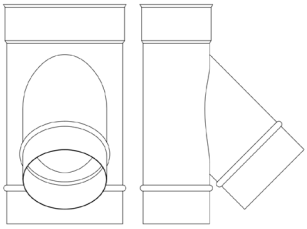
Index	KO - TR90(W2)



Dimensions	[mm]	110x185	110x200	110x210	110x230	120x180	120x195	120x225	120x240	130x200	130x220	130x240	130x250	140x250
Diameters	[mm]	160	180	180	180	160	200	180	200	180	200	200	225	225
Available steel thickness	[mm]	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Tee-pipe 45° (1)

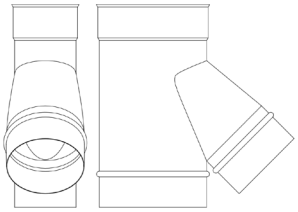
Index	KO - TR45(W1)



Dimensions	[mm]	110x185	110x200	110x210	110x230	120x180	120x195	120x225	120x240	130x200	130x220	130x240	130x250	140x250
Diameters	[mm]	160	180	180	180	160	200	180	200	180	200	200	225	225
Available steel thickness	[mm]	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Tee-pipe 45° (2)

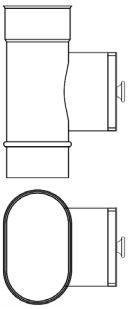
Index	KO - TR45(W2)



Dimensions	[mm]	110x185	110x200	110x210	110x230	120x180	120x195	120x225	120x240	130x200	130x220	130x240	130x250	140x250
Diameters	[mm]	160	180	180	180	160	200	180	200	180	200	200	225	225
Available steel thickness	[mm]	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Cleanout tee with cover (1)

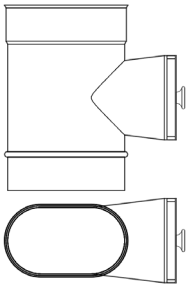
Index	KO - WTD(W1)



Dimensions	[mm]	110x185	110x200	110x210	110x230	120x180	120x195	120x225	120x240	130x200	130x220	130x240	130x250	140x250
Diameters	[mm]	160	180	180	180	160	200	180	200	180	200	200	225	225
Available steel thickness	[mm]	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Cleanout tee with cover (2)

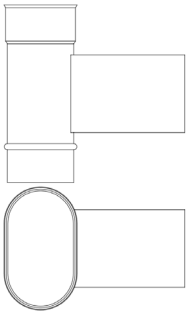
Index	KO - WTD(W2)



Dimensions	[mm]	110x185	110x200	110x210	110x230	120x180	120x195	120x225	120x240	130x200	130x220	130x240	130x250	140x250
Diameters	[mm]	160	180	180	180	160	200	180	200	180	200	200	225	225
Available steel thickness	[mm]	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Cleanout (1)

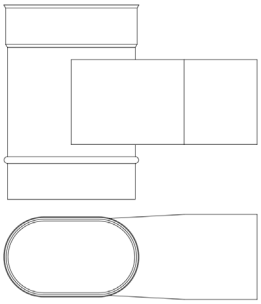
Index	KO - W(W1)



Dimensions	[mm]	110x185	110x200	110x210	110x230	120x180	120x195	120x225	120x240	130x200	130x220	130x240	130x250	140x250
Diameters	[mm]	160	180	180	180	160	200	180	200	180	200	200	225	225
Available steel thickness	[mm]	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Cleanout (2)

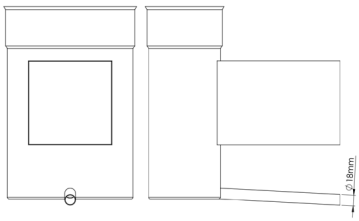
Index	KO - W(W2)



Dimensions	[mm]	110x185	110x200	110x210	110x230	120x180	120x195	120x225	120x240	130x200	130x220	130x240	130x250	140x250
Diameters	[mm]	160	180	180	180	160	200	180	200	180	200	200	225	225
Available steel thickness	[mm]	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Cleanout with condenser (1)

Index	KO - WO(W1)



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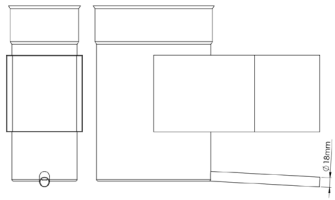
Diameters	[mm]	160	180	180	180	160	200	180	200	180	200	200	225	225
Available steel thickness	[mm]	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Cleanout with condenser (2)

Index	KO - WO(W2)



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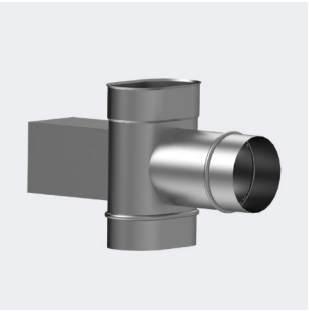
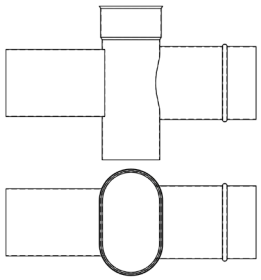
Diameters	[mm]	160	180	180	180	160	200	180	200	180	200	200	225	225
Available steel thickness	[mm]	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Tee with opposite cleaning

Index	KO - TR90-W





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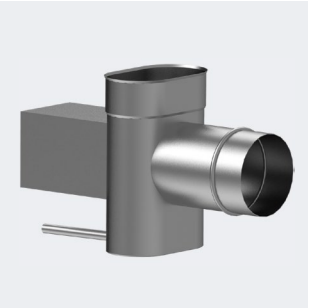
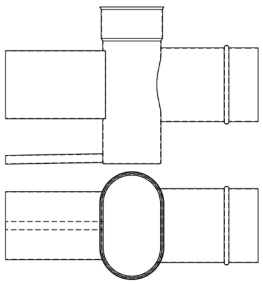
Diameters	[mm]	160	180	180	180	160	200	180	200	180	200	200	225	225
Available steel thickness	[mm]	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Tee with opposite cleaning and condenser

Index	KO - TR90-WO

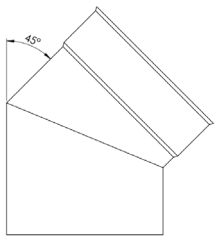




Dimensions	[mm]	110x185	110x200	110x210	110x230	120x180	120x195	120x225	120x240	130x200	130x220	130x240	130x250	140x250
Diameters	[mm]	160	180	180	180	160	200	180	200	180	200	200	225	225
Available steel thickness	[mm]	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Elbow 45°

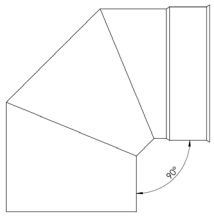
Index	KO - K45



Dimensions	[mm]	110x185	110x200	110x210	110x230	120x180	120x195	120x225	120x240	130x200	130x220	130x240	130x250	140x250
Diameters	[mm]	160	180	180	180	160	200	180	200	180	200	200	225	225
Available steel thickness	[mm]	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Elbow 90°

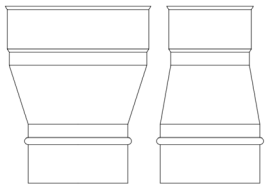
Index	KO - K90



Dimensions	[mm]	110x185	110x200	110x210	110x230	120x180	120x195	120x225	120x240	130x200	130x220	130x240	130x250	140x250
Diameters	[mm]	160	180	180	180	160	200	180	200	180	200	200	225	225
Available steel thickness	[mm]	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Oval conical reduction

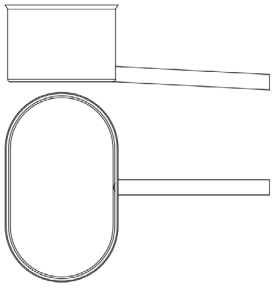
Index	KO - RS



Dimensions	[mm]	110x185	110x200	110x210	110x230	120x180	120x195	120x225	120x240	130x200	130x220	130x240	130x250	140x250
Diameters	[mm]	160	180	180	180	160	200	180	200	180	200	200	225	225
Available steel thickness	[mm]	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Condensate collector

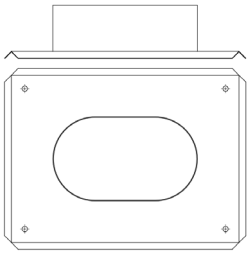
Index	KO - O



Dimensions	[mm]	110x185	110x200	110x210	110x230	120x180	120x195	120x225	120x240	130x200	130x220	130x240	130x250	140x250
Diameters	[mm]	160	180	180	180	160	200	180	200	180	200	200	225	225
Available steel thickness	[mm]	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Oval pass-through

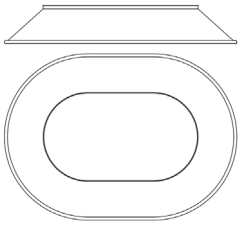
Index	KO - P



Dimensions	[mm]	110x185	110x200	110x210	110x230	120x180	120x195	120x225	120x240	130x200	130x220	130x240	130x250	140x250
Diameters	[mm]	160	180	180	180	160	200	180	200	180	200	200	225	225
Available steel thickness	[mm]	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Oval rainshield

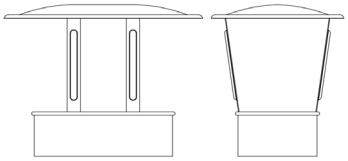
Index	KO - OPD



Dimensions	[mm]	110x185	110x200	110x210	110x230	120x180	120x195	120x225	120x240	130x200	130x220	130x240	130x250	140x250
Diameters	[mm]	160	180	180	180	160	200	180	200	180	200	200	225	225
Available steel thickness	[mm]	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

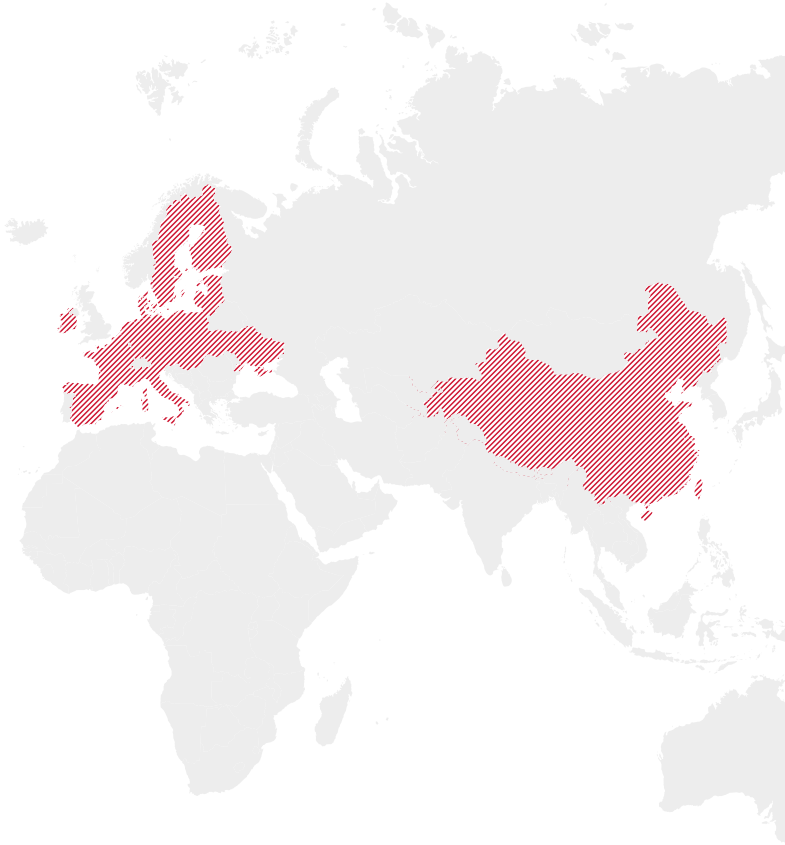
Cap

Index	KO - D



Dimensions	[mm]	110x185	110x200	110x210	110x230	120x180	120x195	120x225	120x240	130x200	130x220	130x240	130x250	140x250
Diameters	[mm]	160	180	180	180	160	200	180	200	180	200	200	225	225
Available steel thickness	[mm]	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

We are open to the whole world!



The great capacity of our production facilities and the experience we have gained over many years allows us to develop our company through international cooperation. As a result, we are looking beyond the borders of Poland.

To this date, the steel components we produce have been supplied to European countries such as Austria, Germany, France, Italy, Sweden,Finland, Denmark, the Netherlands, the Czech Republic, Slovakia, and Lithuania, among others.

Count on an experienced company! Get in touch with us!

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KOMINUS

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Kominus Polska Headquarters and main production facility

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